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UTILITY
PATENT APPLICATION

Attorney Docket No. 1875.6040000

First Inventor SMITH et al.

Title Asynchronous Clock Domain Crossing Jitter

(Only for new nonprovisional applications under 37 CFR 1.53(b))

TRANSMITTAL

Asynchronous Clock Domain Crossing Jitter
Randomiser
Express Mail Label No.

| (Only for new nonprovisional applications under 37 CFR 1.53(b)) | Express Mail Label No. | | | | |
|--|---|--|--|--|--|
| APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents. | ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450 | | | | |
| 1. X Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. 3. Specification [Total Pages 14] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) | 7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS | | | | |
| - Abstract of the Disclosure 4. X Drawing(s) (35 U.S.C. 113) [Total Sheets] 5. Oath or Declaration [Total Sheets] a. X Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. X Application Data Sheet. See 37 CFR 1.76 | 9. X Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) Attorney 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 13. X Preliminary Amendment 14. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. X Other: Authorization under 37CFR 1.136(a)(3) The name of the assignee is: Broadcom Corporation ofly the requisite information below and in the first sentence of the | | | | |
| Continuation Divisional Continuation-in-part (CIP) of prior application No.: Prior application information: Examiner For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. | | | | | |
| 19. CORRESPOND | DENCE ADDRESS | | | | |
| X Customer Number: 26111 | OR Correspondence address below | | | | |
| Name | | | | | |
| Address | | | | | |
| | State Zip Code | | | | |
| Country | lephone Fax | | | | |
| Name (Print/Type) Robert Skoli Signature | Registration No. (Attorney/Agent) 36,013 Date | | | | |
| | | | | | |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

| | | Complete if Known | | | | |
|---|-----------------------------------|----------------------|-----------------------------|----------------|---|--|
| FEE TRANS | DIVII I I | AL | Application Number | To Be Assigned | | |
| for FY 2004 Effective 10/01/2003. Patent fees are subject to annual revision. Applicant claims small entity status. See 37 CFR 1.27 | | Filing Date | March 30, 2004 | | | |
| | | First Named Inventor | Simon SMITH | | | |
| | | Examiner Name | To Be Assigned | | | |
| | | Art Unit | To Be Assigned | | | |
| TOTAL AMOUNT OF PAYMENT | (\$) 81 | 0.00 | Attorney Docket No. | 1875.6040000 | J | |
| METHOD OF PAYMENT (chec | OF PAYMENT (check all that apply) | | FEE CALCULATION (continued) | | | |

| METHOD OF PAYMENT (check all that apply) | FEE CALCULATION (continued) | | | | | |
|---|-----------------------------|---------------------|----------|--------------|--|----------|
| Check X Credit card Money X Other** None | 3. ADDITIONAL FEES | | | | | |
| *Charge any deficiencies or credit any overpayments in | Large Entity Small Entity | | | | | |
| La Deposit Account: the fees to Deposit Acci. No. 19-0036, Deposit | Fee Code | | | Fee | Fee Description | |
| Account 19-0036 | 1051 | (\$) 130 | 2051 | | Surcharge - late filing fee or oath | Fee Paid |
| Number Deposit | 1052 | 50 | 2052 | 25 | Surcharge - late provisional filing fee or | |
| Account Name Sterne Kessler, Goldstein & Fox P.L.L.C. | 1032 | 30 | 2032 | 23 | cover sheet | |
| The Director is authorized to: (check all that apply) | 1053 | 130 | 1053 | | Non-English specification | |
| Charge fee(s) indicated below Credit any overpayments | 1812 | | 1812 | • | For filing a request for ex parte reexamination | |
| Charge any additional fee(s) or any underpayment of fee(s) | 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action | |
| Charge fee(s) indicated below, except for the filing fee | 1805 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action | |
| to the above-identified deposit account. | 1251 | 110 | 2251 | 55 | Extension for reply within first month | |
| FEE CALCULATION | 1252 | 420 | 2252 | 210 | Extension for reply within second month | |
| 1. BASIC FILING FEE Large Entity Small Entity | 1253 | 950 | 2253 | | | |
| Fee Fee Fee Fee Description Fee Paid | 1254 | 1,480 | 2254 | 740 | Extension for reply within fourth month | |
| Code (\$) Code (\$) 1001 770 2001 385 Utility filing fee | 1255 | 2.010 | 2255 | 1.005 | Extension for reply within fifth month | |
| 1001 770 2001 385 Utility filing fee 770.00 | 1401 | 330 | 2401 | | . , | |
| 1003 530 2003 265 Plant filing fee | 1402 | 330 | 2402 | | Filing a brief in support of an appeal | |
| 1004 770 2004 385 Reissue filing fee | 1403 | 290 | 2403 | | Request for oral hearing | |
| 1005 160 2005 80 Provisional filing fee | 1451 | | | | Petition to institute a public use proceeding | |
| | 1452 | 110 | 2452 | | | |
| (| 1453 | 1,330 | 2453 | 665 | Petition to revive - unintentional | |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE | 1501 | 1,330 | 2501 | 665 | Utility issue fee (or reissue) | |
| Extra Claims below Fee Paid | 1502 | 480 | 2502 | 240 | Design issue fee | |
| Total Claims 15 - 20 **= X = X | 1503 | 640 | 2503 | 320 | Plant issue fee | |
| Claims | 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | |
| Multiple Dependent = | 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17(q) | |
| Large Entity Small Entity Fee Fee Fee Fee Fee Description | 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt | |
| Code (\$) Code (\$) | 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) | \$40.00 |
| 1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3 | 1809 | 770 | 2809 | 385 | Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1203 290 2203 145 Multiple dependent claim, if not paid | 1810 | 770 | 2810 | 385 | For each additional invention to be | |
| 1204 86 2204 43 ** Reissue independent claims | | | | | examined (37 CFR 1.129(b)) | |
| over original patent | 1801 | 770 | 2801 | | , | |
| 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent | 1802 | 900 | 1802 | 9 <u>0</u> 0 | Request for expedited examination of a design application | |
| SUBTOTAL (2) (\$) | Other | fee (sp | ecify) _ | | | |
| **or number previously paid, if greater; For Reissues, see above | *Redu | ced by | Basic F | Filing F | ee Paid SUBTOTAL (3) (\$) | 40.00 |

| SUBMITTED BY | | (Complete (if applicable)) | | | | | |
|-------------------|---------------|--|-----------|----------------|--|--|--|
| Name (Print/Type) | Robert Sokohl | Registration No. (Attorney/Agent) 36,013 | Telephone | (203) 371-2600 | | | |
| Signature | 1/804 | | Date 3 | 30/04 | | | |

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March 30, 2004

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Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 Mail Stop Patent Application

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

Appl. No. To Be Assigned; Filed: March 30, 2004

For: Asynchronous Clock Domain Crossing Jitter Randomiser

Inventors:

SMITH et al.

Our Ref:

1875.6040000

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Fee Transmittal (Form PTO/SB/17);
- 2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- 3. U.S. Utility Patent Application entitled:

Asynchronous Clock Domain Crossing Jitter Randomiser

and naming as inventors:

Simon SMITH, Geoff BARRETT and Martin VICKERS

the application consisting of:

- a. An Application Data Sheet (37 C.F.R. § 1.76);
- b. An original executed Declaration;
- c. A specification containing:
 - i. 10 pages of description prior to the claims;

Sterne, Kessler, Goldstein & Fox PLL.C.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540: www.skgf.com

Commissioner for Patents March 30, 2004 Page 2

- ii. 3 pages of claims (15 claims);
- iii. a one (1) page abstract;
- d. 1 sheet of drawings: (Figure(s) 1-2); and
- 4. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
- 5. Recordation Form Cover Sheet;
- 6. An original executed Assignment to **Broadcom Corporation**, recordation of which is hereby respectfully requested;
- 7. Preliminary Amendment;
- 8. Two (2) return postcards; and
- 9. Form PTO-2038 Credit Card Payment Form in the amount of \$810.00 to cover the \$770.00 filing fee and the \$40.00 recordation of assignment fee.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Robert Sokohl Attorney for Applicants Registration No. 36,013

RES/mjg Enclosures

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

SMITH et al.

Appl. No.: To Be Assigned

Filed: March 30, 2004

For: Asynchronous Clock Domain Crossing Jitter Randomiser

Confirmation No.: To Be Assigned

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 1875.6040000

Authorization to Treat a Reply as Incorporating an Extension of Time Under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

STERNE KESSLER, GOLDSTEIN & FOX P.L.L.C.

Robert Sokohl

Attorney for Applicants Registration No. 36,013

Date: 3

3/30/04

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